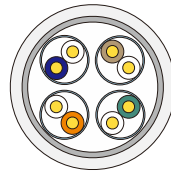
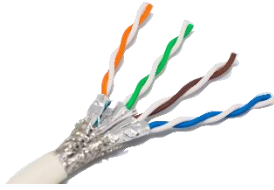




TFL2304TXX

S/FTP, 23AWG solid bare copper, CAT.7A, LSZH, 1000MHZ



CONSTRUCTION

Conductors	23 AWG solid bare annealed copper
Insulation	Polyolefin (PO)
Color Code	Pair 1: Blue & white Pair 2: Orange & white Pair 3: Green & white Pair 4: Brown & white
Separator	N/A
Core Tape	N/A
Drain wire	N/A
Pair shield	Al Mylar
Braid	Tinned copper
Jacket	Low smoke zero halogen (LSZH)

Marking

ELITE CAT. 7A / CLASS FA S/FTP 23AWG 4PR LSZH --- ETL
VERIFIED TO ISO/IEC 11801 mmyy XXXXFT
Note 1: mmyy is date code.

Packaging

1000 FEET (305M): Reel

ELECTRICAL CHARACTERISTICS

DC Resistance Ohms/100 m (328 ft) @ 20°C	9.5
DC Resistance Unbalanced Individual Pair %	2.00
Delay Skew (Max) ns/100 m	25
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f)	Ohms 100 ± 15

PHYSICAL CHARACTERISTICS

Nominal Cable Diameter (mm)	8.0
Nominal Cable Net Weight (kg/1k ft)	20.2
Minimum Bend Radius	≥ 8 times O.D.
Maximum Pulling Force	≤ 110 N
Temperature Rating (°C) Storage & shipping Installation Operation	-20°C to +60°C 0 to +60 -20 to +60

Transmission Performance (at 20°C)

Frequency (MHz)	IL (Max.)	NEXT (Min.)	PS. NEXT (Min.)	ACR (Min.)	PS. ACR (Min.)	ACRF (Min.)	PS. ACRF (Min.)	RL (Min.)	Propagation Delay (Max.)
	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	ns/100m
4	3.75	78.00	75.00	-	-	78.00	75.00	23.01	552.00
8	5.22	78.00	75.00	-	-	77.24	74.24	24.52	546.73
10	5.82	78.00	75.00	-	-	75.30	72.30	25.00	545.38
16	7.34	78.00	75.00	-	-	71.22	68.22	25.00	543.00
20	8.21	78.00	75.00	-	-	69.28	66.28	25.00	542.05
25	9.18	78.00	75.00	-	-	67.34	64.34	24.32	541.20
31.25	10.26	78.00	75.00	-	-	65.40	62.40	23.64	540.44
62.5	14.57	78.00	75.00	-	-	59.38	56.38	21.54	538.55
100	18.53	75.40	72.40	-	-	55.30	52.30	20.11	537.60
150	22.82	72.76	69.76	-	-	51.78	48.78	18.87	536.94
200	26.47	70.88	67.88	-	-	49.28	46.28	18.00	536.55
250	29.73	69.43	66.43	-	-	47.34	44.34	17.32	536.28
300	32.69	68.24	65.24	-	-	45.76	42.76	17.30	536.08
400	38.01	66.37	63.37	-	-	43.26	40.26	17.30	535.80
500	42.76	64.92	61.92	-	-	41.32	38.32	17.30	535.61
600	47.10	63.73	60.73	-	-	39.74	36.74	17.30	535.47
700	51.13	62.72	59.72	-	-	38.40	35.40	16.63	535.36
750	53.05	62.27	59.27	-	-	37.80	34.80	16.33	535.31
1000	61.93	60.40	57.40	-	-	35.30	32.30	15.08	535.14